

TEST REPORT

Applicant: Shenzhen Jiaying Huanqiu Technology Co., Ltd.

Address of Applicant: Room 501~503, 519~520, Block B, Jinchi Business Building,
Xin'an Street, Bao'an District, Shenzhen, Guangdong
Province, China

Manufacturer: Shenzhen Jiaying Huanqiu Technology Co., Ltd.

**Address of
Manufacturer:** Room 501~503, 519~520, Block B, Jinchi Business Building,
Xin'an Street, Bao'an District, Shenzhen, Guangdong
Province, China

Factory: Shenzhen Jiaying Huanqiu Technology Co., Ltd.

Address of Factory: Room 501~503, 519~520, Block B, Jinchi Business Building,
Xin'an Street, Bao'an District, Shenzhen, Guangdong
Province, China

Equipment Under Test (EUT)

Product Name: Telescopic Wireless Controller

Model No.: AB02, AoBing Max+

Trade Mark: N/A

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: Mar 31, 2025

Date of Test: Mar 31 - Apr 02, 2025

Date of report issued: Apr 02, 2025

Test Result : PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

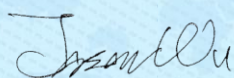
Robinson Luo
Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

2 Version

Version No.	Date	Description
00	Apr 02, 2025	Original

Prepared By:

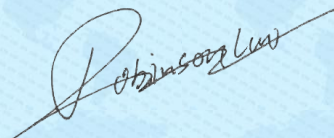


Date:

Apr 02, 2025

Project Engineer

Check By:



Date:

Apr 02, 2025

Reviewer

3 Contents

1	COVER PAGE.....	1
2	VERSION	2
3	CONTENTS	3
4	TEST SUMMARY	4
5	GENERAL INFORMATION	5
5.1	GENERAL DESCRIPTION OF EUT	5
5.2	TEST MODE AND TEST VOLTAGE	5
5.3	DESCRIPTION OF SUPPORT UNITS	6
5.4	DEVIATION FROM STANDARDS	6
5.5	ABNORMALITIES FROM STANDARD CONDITIONS.....	6
5.6	TEST FACILITY	6
5.7	TEST LOCATION.....	6
6	TEST INSTRUMENTS LIST	7
7	TEST RESULTS AND MEASUREMENT DATA.....	9
7.1	RADIATED EMISSION	9
7.2	CONDUCTED EMISSIONS	14
8	TEST SETUP PHOTO	17
9	EUT CONSTRUCTIONAL DETAILS	17

4 Test Summary

Test Item	Test Requirement	Test Method	Class / Severity	Result
Conducted Emission	FCC Part15.107	ANSI C63.4	Class B	PASS
Radiated Emissions #	FCC Part15.109	ANSI C63.4	Class B	PASS

Remarks:

1. Pass: The EUT complies with the essential requirements in the standard.
2. # Refer to FCC Part 15.33 (b)(1) conditional testing procedure :

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705-108	1000
108-500	2000
500-1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower.

Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	30MHz-200MHz	3.8039dB	(1)
Radiated Emission	200MHz-1GHz	3.9679dB	(1)
Radiated Emission	1GHz-18GHz	4.29dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	3.44dB	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

5 General Information

5.1 General Description of EUT

Product Name:	Telescopic Wireless Controller
Model No.:	AB02, AoBing Max+
Test sample(s) ID:	GTSL2025040126-3
Sample(s) Status:	Normal sample
Power Supply:	DC 5V

Remark:

The relevant information of the sample is provided by the entrusting company, and the laboratory is not responsible for its authenticity.

5.2 Test mode and Test voltage

Test mode:	
Line in mode	Normal operation mode.
FM mode	N/A.
Test voltage	
AC 120V 60Hz	

5.3 Description of Support Units

Manufacturer	Description	Model	Serial Number
Huawei	Adapter	HW-050200C01	/

5.4 Deviation from Standards

None.

5.5 Abnormalities from Standard Conditions

None.

5.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations: • FCC—Registration No.: 381383 Designation Number: CN5029 Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. • ISED—Registration No.: 9079A CAB identifier: CN0091 The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of ISED for radio equipment testing • NVLAP (LAB CODE:600179-0) Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).
--

5.7 Test Location

The test was performed at:
Global United Technology Services Co., Ltd. Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Tel: 0755-27798480 Fax: 0755-27798960

6 Test Instruments list

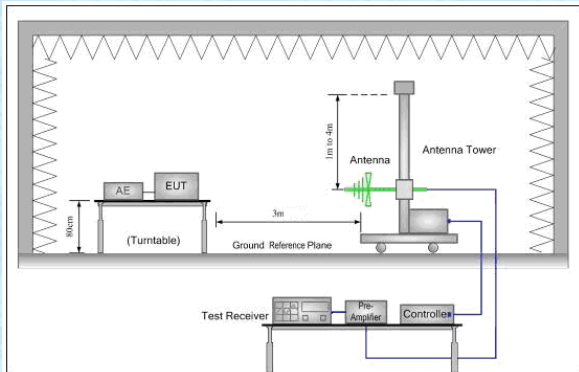
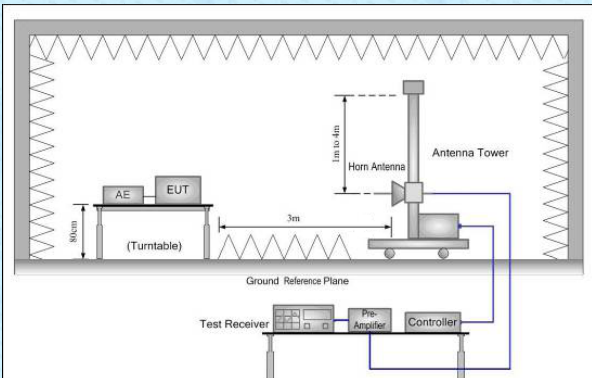
Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Jun. 22, 2024	Jun. 21, 2027
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Apr. 11, 2024	Apr. 10, 2025
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	GTS640	Mar. 18, 2025	Mar. 17, 2026
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	Apr. 17, 2023	Apr. 16, 2025
6	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	Apr. 11, 2024	Apr. 10, 2025
7	Loop Antenna	ZHINAN	ZN30900A	GTS534	Nov.12, 2024	Nov.11, 2025
8	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	Apr. 11, 2024	Apr. 10, 2025
9	Amplifier(1GHz-26.5GHz)	HP	8449B	GTS601	Apr. 11, 2024	Apr. 10, 2025
10	Horn Antenna (18GH-40GHz)	Schwarzbeck	BBHA 9170	GTS691	Jul. 05, 2024	Jul. 04, 2025
11	FSV·Signal Analyzer (10Hz-40GHz)	Keysight	FSV-40-N	GTS666	Mar. 11, 2025	Mar. 10, 2026
12	Amplifier	/	LNA-1000-30S	GTS650	Apr. 11, 2024	Apr. 10, 2025
13	CDNE M2+M3-16A	HCT	30MHz-300MHz	GTS692	Nov. 07, 2024	Nov. 06, 2025
14	Wideband Amplifier	/	WDA-01004000-15P35	GTS602	Apr. 11, 2024	Apr. 10, 2025
15	Thermo meter	JINCHUANG	GSP-8A	GTS643	Apr. 18, 2024	Apr. 17, 2025
16	RE cable 1	GTS	N/A	GTS675	Jul. 02, 2024	Jul. 01, 2025
17	RE cable 2	GTS	N/A	GTS676	Jul. 02, 2024	Jul. 01, 2025
18	RE cable 3	GTS	N/A	GTS677	Jul. 02, 2024	Jul. 01, 2025
19	RE cable 4	GTS	N/A	GTS678	Jul. 02, 2024	Jul. 01, 2025
20	RE cable 5	GTS	N/A	GTS679	Jul. 02, 2024	Jul. 01, 2025
21	RE cable 6	GTS	N/A	GTS680	Jul. 02, 2024	Jul. 01, 2025
22	RE cable 7	GTS	N/A	GTS681	Jul. 05, 2024	Jul. 04, 2025
23	RE cable 8	GTS	N/A	GTS682	Jul. 05, 2024	Jul. 04, 2025
24	EMI Test Software	AUDIX	E3-6.100614a	GTS725	N/A	N/A

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	Jul. 12, 2022	Jul. 11, 2027
2	EMI Test Receiver	R&S	ESCI 7	GTS552	Apr. 11, 2024	Apr. 10, 2025
3	LISN	ROHDE & SCHWARZ	ENV216	GTS226	Apr. 11, 2024	Apr. 10, 2025
4	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A
5	Thermo meter	JINCHUANG	GSP-8A	GTS642	Apr. 18, 2024	Apr. 17, 2025
6	Absorbing clamp	Elektronik-Feinmechanik	MDS21	GTS229	Apr. 11, 2024	Apr. 10, 2025
7	ISN	SCHWARZBECK	NTFM 8158	GTS565	Apr. 11, 2024	Apr. 10, 2025
8	High voltage probe	SCHWARZBECK	TK9420	GTS537	Apr. 11, 2024	Apr. 10, 2025
9	Antenna end assembly	Weinschel	1870A	GTS560	Apr. 11, 2024	Apr. 10, 2025
10	EMI Test Software	AUDIX	E3-6.100622	GTS726	N/A	N/A

General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	KUMAO	SF132	GTS647	Apr. 18, 2024	Apr. 17, 2025

7 Test Results and Measurement Data

7.1 Radiated Emission

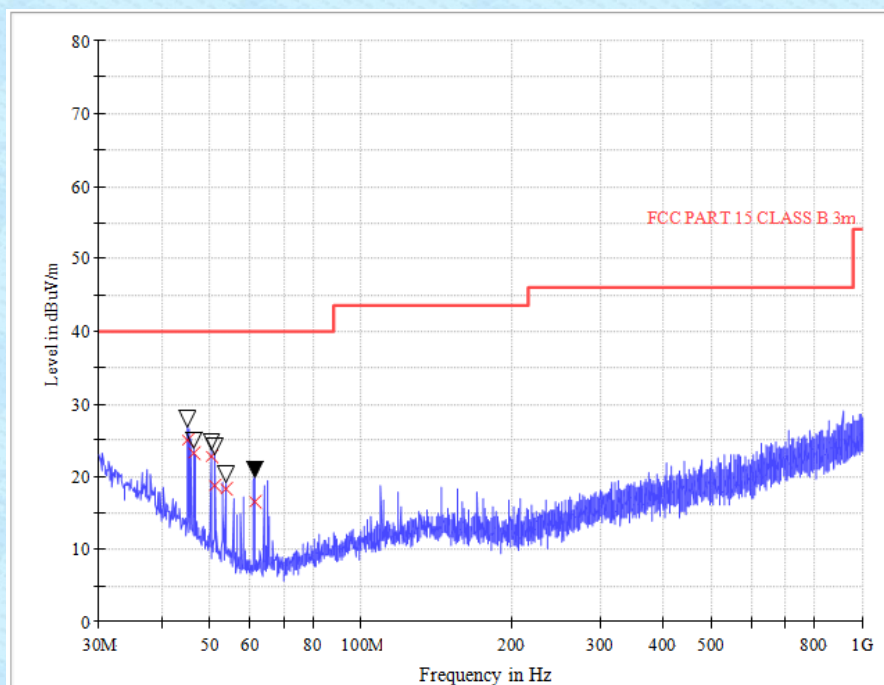
Test Requirement:	FCC Part15 B Section 15.109				
Test Method:	ANSI C63.4:2014				
Test Frequency Range:	30MHz to 6000MHz				
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
Peak		1MHz	3MHz	Average Value	
Limit:	Frequency		Limit (dBuV/m @3m)		Remark
	30MHz-88MHz		40.00		Quasi-peak Value
	88MHz-216MHz		43.50		Quasi-peak Value
	216MHz-960MHz		46.00		Quasi-peak Value
	960MHz-1GHz		54.00		Quasi-peak Value
	Above 1GHz		54.00		Average Value
74.00			Peak Value		
Test setup:	For radiated emissions from 30MHz to1GHz				
					
Test setup:	For radiated emissions above 1GHz				
					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.: 1 012mbar

Test Instruments:	Refer to section 6 for details
Test mode:	Refer to section 5.2 for details, only show the worst case.
Test results:	Pass

Measurement Data

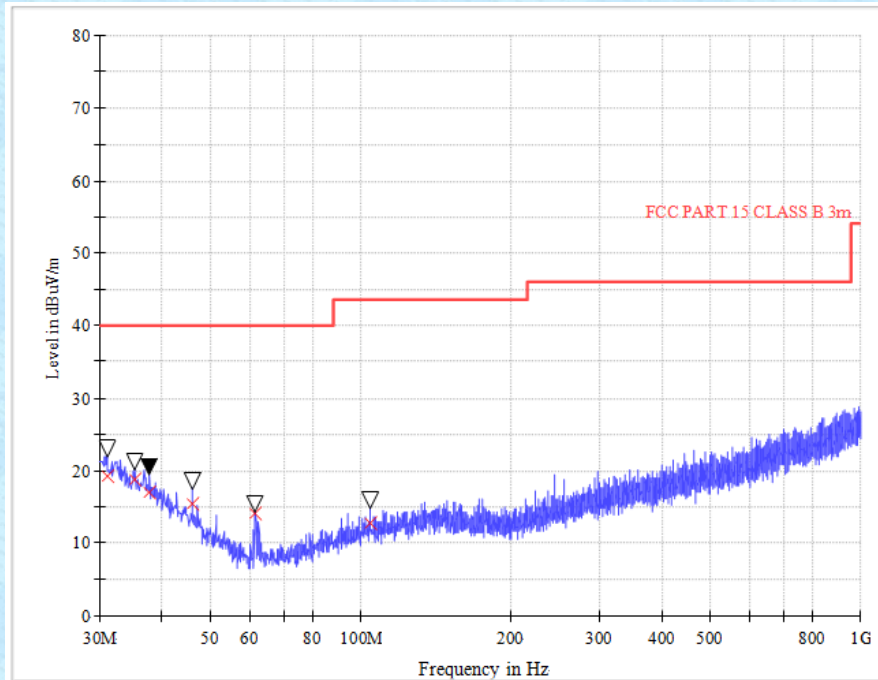
Below 1GHz

Test mode:	Normal operation mode	Antenna Polarity:	Vertical
------------	-----------------------	-------------------	----------



Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dBμV/m)	Margin (dB)	Antenna	Verdict
45.16	25.07	120.000	112	40.0	14.93	Vertical	Pass
46.48	23.14	120.000	113	40.0	16.86	Vertical	Pass
50.12	22.73	120.000	117	40.0	17.27	Vertical	Pass
51.20	18.80	120.000	109	40.0	21.20	Vertical	Pass
53.64	18.36	120.000	108	40.0	21.64	Vertical	Pass
61.28	16.53	120.000	110	40.0	23.47	Vertical	Pass

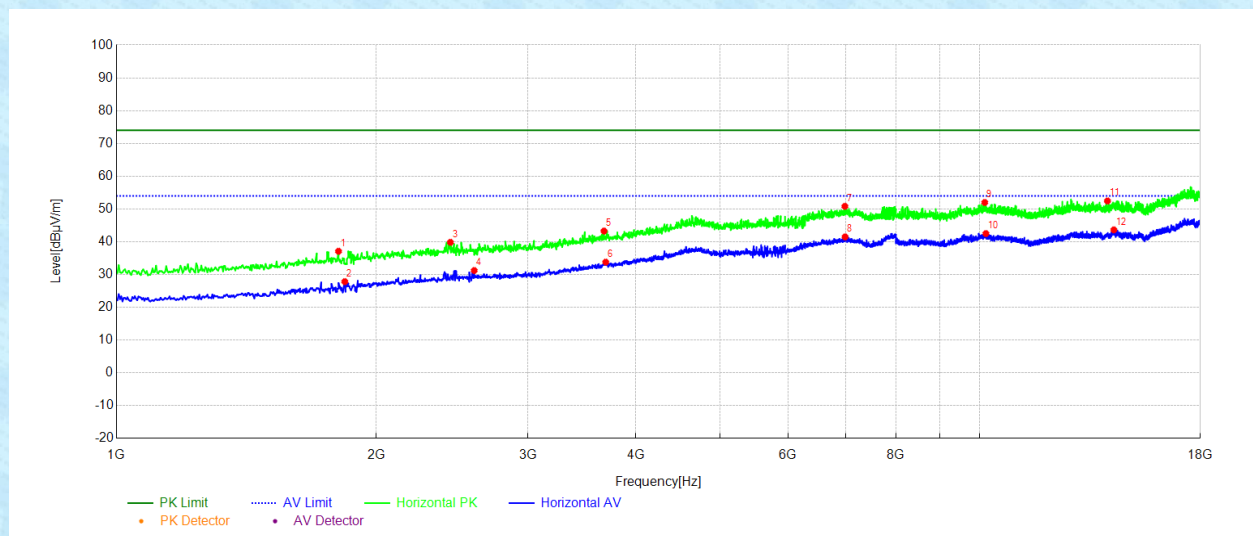
Test mode:	Normal operation mode	Antenna Polarity:	Horizontal
------------	-----------------------	-------------------	------------



Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dBμV/m)	Margin (dB)	Antenna	Verdict
31.08	19.26	120.000	105	40.0	20.74	Horizontal	Pass
35.32	18.82	120.000	102	40.0	21.18	Horizontal	Pass
37.76	17.07	120.000	103	40.0	22.94	Horizontal	Pass
46.00	15.53	120.000	106	40.0	24.47	Horizontal	Pass
61.52	13.99	120.000	101	40.0	26.01	Horizontal	Pass
104.32	12.79	120.000	104	43.5	30.71	Horizontal	Pass

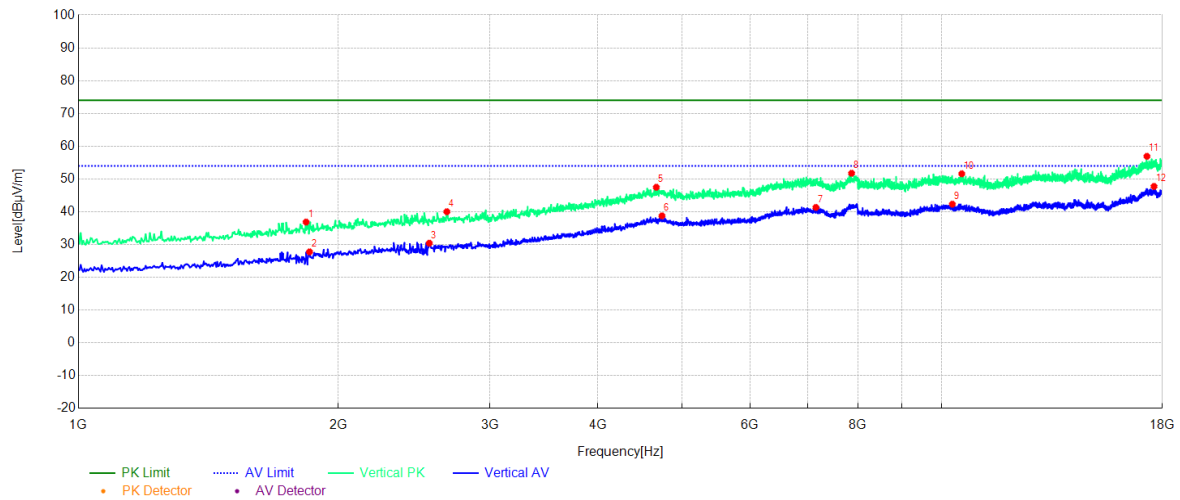
Above 1GHz

Test mode:	Normal operation mode	Antenna Polarity:	Horizontal
------------	-----------------------	-------------------	------------



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin[dBμV/ m]	Trace	Height [cm]	Angle [°]	Polarity
1	1809.36	37.10	-12.13	74.00	36.90	PK	103	3	Horizontal
2	1839.97	27.83	-11.95	54.00	26.17	AV	108	87	Horizontal
3	2438.49	39.84	-9.62	74.00	34.16	PK	103	22	Horizontal
4	2598.32	31.23	-9.24	54.00	22.77	AV	102	321	Horizontal
5	3672.93	43.26	-4.97	74.00	30.74	PK	105	189	Horizontal
6	3689.94	33.79	-4.89	54.00	20.21	AV	106	162	Horizontal
7	6981.80	50.82	4.22	74.00	23.18	PK	107	43	Horizontal
8	6985.20	41.48	4.22	54.00	12.52	AV	101	157	Horizontal
9	10137.63	51.98	7.27	74.00	22.02	PK	102	202	Horizontal
10	10168.23	42.49	7.19	54.00	11.51	AV	106	91	Horizontal
11	14062.01	52.45	9.50	74.00	21.55	PK	108	334	Horizontal
12	14303.46	43.64	10.20	54.00	10.36	AV	154	33	Horizontal

Test mode:	Normal operation mode	Antenna Polarity:	Vertical
------------	-----------------------	-------------------	----------



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin[dBμV/m]	Trace	Height [cm]	Angle [°]	Polarity
1	1836.57	36.85	-11.97	74.00	37.15	PK	105	243	Vertical
2	1853.57	27.77	-11.87	54.00	26.23	AV	107	258	Vertical
3	2550.71	30.42	-9.28	54.00	23.58	AV	101	202	Vertical
4	2673.13	40.01	-8.99	74.00	33.99	PK	103	242	Vertical
5	4672.73	47.47	0.28	74.00	26.53	PK	104	203	Vertical
6	4744.15	38.75	0.38	54.00	15.25	AV	102	327	Vertical
7	7151.83	41.32	4.15	54.00	12.68	AV	108	134	Vertical
8	7865.97	51.75	5.13	74.00	22.25	PK	106	92	Vertical
9	10290.66	42.32	7.05	54.00	11.68	AV	105	271	Vertical
10	10552.51	51.59	7.16	74.00	22.41	PK	102	306	Vertical
11	17289.26	56.91	14.02	74.00	17.09	PK	104	335	Vertical
12	17619.12	47.73	14.55	54.00	6.27	AV	107	244	Vertical

Note:

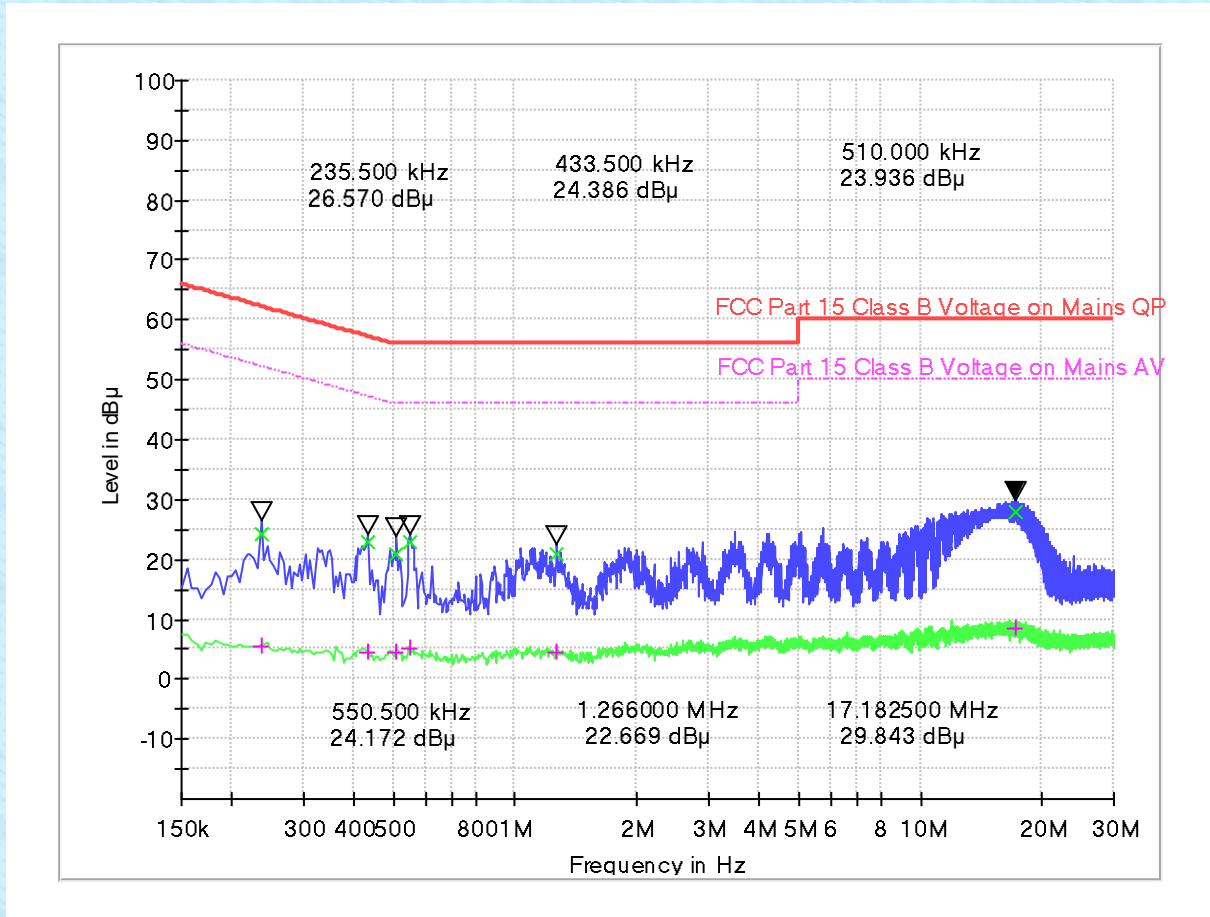
- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- If the average limit is met when using a Peak detector, the EUT shall be deemed to meet both peak and average limits. And measurement with the average detector is unnecessary.
- For above 18GHz, the emission level lower than the limit at least 20dB, not provide in the report.

7.2 Conducted Emissions

Test Requirement:	FCC Part15 B Section 15.107																			
Test Method:	ANSI C63.4:2014																			
Test Frequency Range:	150kHz to 30MHz																			
Class / Severity:	Class B																			
Receiver setup:	RBW=9kHz, VBW=30kHz																			
Limit:	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBμV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table>						Frequency range (MHz)	Limit (dBμV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBμV)																			
	Quasi-peak	Average																		
0.15-0.5	66 to 56*	56 to 46*																		
0.5-5	56	46																		
5-30	60	50																		
Test setup:	Reference Plane <i>Remark</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m																			
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1 012mbar														
Test Instruments:	Refer to section 6 for details																			
Test mode:	Refer to section 5.2 for details, only show the worst case.																			
Test results:	Pass																			

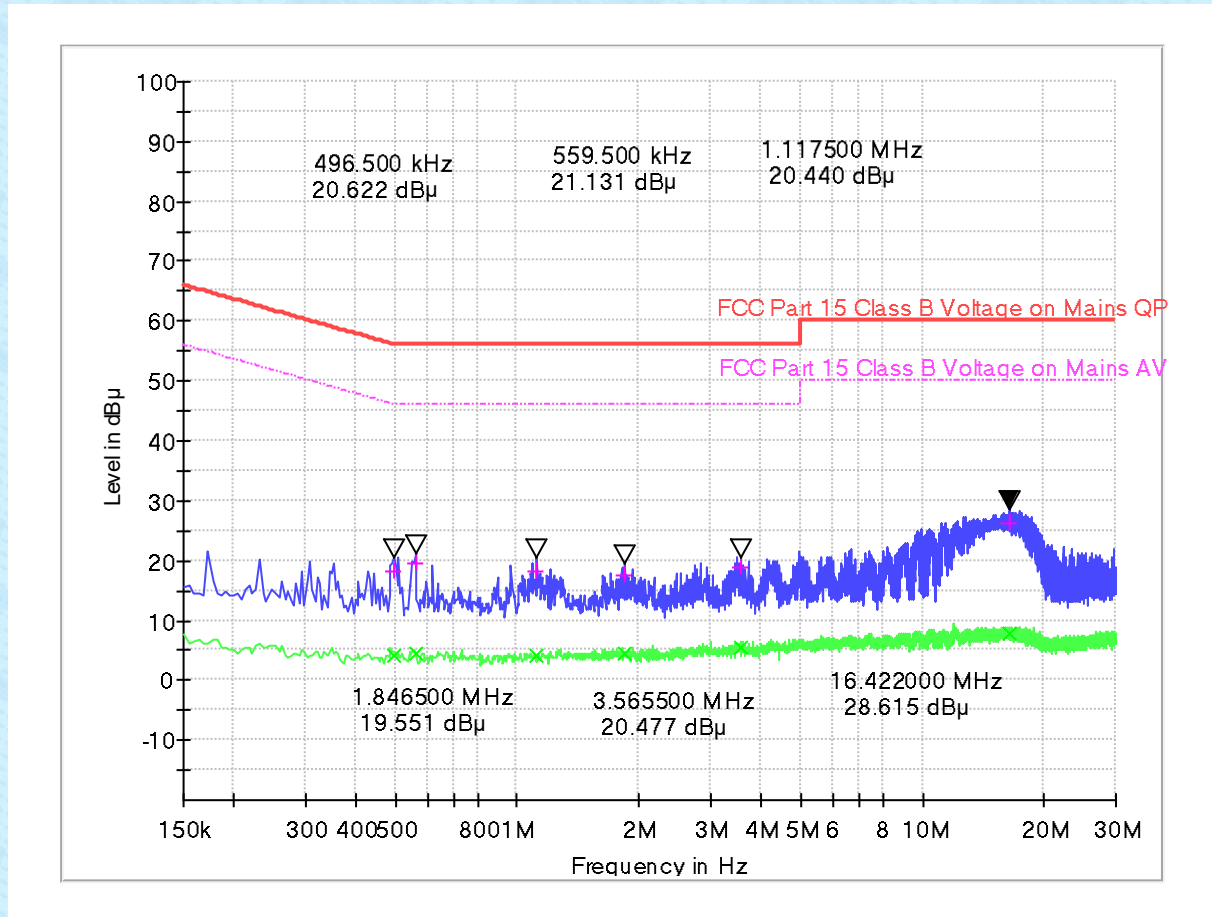
Measurement Data

Test mode:	Normal operation mode	Phase Polarity:	Line
------------	-----------------------	-----------------	------



Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Cabel Loss (dB)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV)	Margin - AV (dB)	Limit - AV (dBμV)
0.235500	24.22	5.49	0.1	10.1	38.03	62.25	46.76	52.25
0.433500	22.95	4.58	0.1	10.1	34.24	57.19	42.61	47.19
0.510000	21.01	4.54	0.1	10.1	34.99	56.00	41.46	46.00
0.550500	22.81	5.30	0.1	10.1	33.19	56.00	40.70	46.00
1.266000	20.84	4.61	0.2	10.2	35.16	56.00	41.39	46.00
17.182500	27.97	8.52	0.5	10.5	32.03	60.00	41.48	50.00

Test mode:	Normal operation mode	Phase Polarity:	Neutral
------------	-----------------------	-----------------	---------



Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Cabel Loss (dB)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK	Margin - AV	Limit - AV (dBμV)
0.496500	18.34	4.29	0.1	10.1	37.72	56.06	41.77	46.06
0.559500	19.66	4.41	0.1	10.1	36.34	56.00	41.59	46.00
1.117500	18.22	4.14	0.2	10.2	37.78	56.00	41.86	46.00
1.846500	17.62	4.53	0.2	10.2	38.38	56.00	41.47	46.00
3.565500	18.83	5.35	0.3	10.3	37.17	56.00	40.65	46.00
16.422000	26.30	7.87	0.5	10.5	33.70	60.00	42.13	50.00

Notes:

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Final Test Level = Receiver Reading + LISN Factor + Cable Loss.

8 Test Setup Photo

Reference to the **appendix I** for details.

9 EUT Constructional Details

Reference to the **appendix II** for details.

-----End-----